PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JAB1747f-PCT				FOR FURTHER AC	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No. International filing date (PCT/EP 03/50377 13.08.2003				lay/monti	h/year)	Priority date (day/month/year, 15.08.2002)	
	ational D498/		t Classification (IPC) or bo	oth national classification ar	nd IPC			
Applic JAN		PHA	ARMACEUTICA N.V.					
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	Thes	e anr	exes consist of a total of	of sheets.		·		
3.	3. This report contains indications relating to the following items:							
	1	\boxtimes	Basis of the opinion					
	11		Priority					
	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	IV 🔲 Lack of unity of invention V 🛛 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability					anliachilihu		
İ	V	☒	citations and explanal	tions supporting such sta	in regai atement	u to noverty, iii	iventive step of industrial ap	phicability,
	VI		Certain documents cit	ted				
	VII		Certain defects in the	international application	ı			
1	VIII		Certain observations	on the international appli	ication			
Date of submission of the demand			Date o	f completion of t	his report			
24.01.2004			25.11	.2004				
			g address of the Internatio ining authority:	nal	Author	ized Officer		Cartestan Carental Care
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				ndijk, M none No. +49 89	2399-8460			
	Телерионе 145. 145 60 2000 1750							

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/50377

1.	Basis	of t	the	re	por	t
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages						
	1-44		as originally filed					
	Clai	ms, Numbers						
1-13			as originally filed					
2.	With lang	regard to the langua uage in which the inte	age, all the elements marked above were available or furnished to this Authority emational application was filed, unless otherwise indicated under this item.	in the				
These elements were available or furnished to this Authority in the following language: , which is								
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publi	cation of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (und 3).	ler :				
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application international preliminary examination was carried out on the basis of the sequence listing: 								
		contained in the inter	national application in written form.	: <u>.</u>				
		filed together with the	e international application in computer readable form.					
		furnished subsequen	atly to this Authority in written form.					
		furnished subsequen	ntly to this Authority in computer readable form.					
		The statement that the international a	ne subsequently furnished written sequence listing does not go beyond the disclepplication as filed has been furnished.	osure				
		The statement that the listing has been furnitude.	atement that the information recorded in computer readable form is identical to the written sequence has been furnished.					
4.	The	amendments have re	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This report has been been considered to	n established as if (some of) the amendments had not been made, since they ha go beyond the disclosure as filed (Rule 70.2(c)).	ve				
		(Any replacement st report.)	heet containing such amendments must be referred to under item 1 and annexed	d to this				
6.	Add	ditional observations,	if necessary:					

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-13

Inventive step (IS)

No:

Claims

Yes: Claims

No: Claims

Industrial applicability (IA)

Yes: Claims

1-13

1-13

No: Claims

2. Citations and explanations

see separate sheet

- The present application relates to fused heterocyclic isoxazoline derivatives 1) having alpha2-adrenoceptor antagonistic and serotonin reuptake inhibitory activity and their application in medicaments for the treatment of i.a. depression.
- 2) The following documents are cited:

D1: EP-A-0 361 577

D2: WO 99 67237 A

D3: EP-A-0 885 883

D4: WO 95 07893 A

D5: WO 97 25317 A

D6: WO 02 066484 A

Document D6 was published after the filing date of the present application. As this priority seems validly claimed, document D6 is herein not considered as prior art.

Novelty 3)

Document D1 relates to tetrahydronahpthalene and indane derivatives having alpha2-adrenoceptor antagonistic and serotonin reuptake inhibitory activity, not however fused isoxazoline derivatives.

Document D2 relates to 5-HT1a antagonistic benzoxazoles.

Documents D3-D5 relate to dopamine receptor ligands; the particular structure of the presently claimed compounds is not disclosed.

It is noted that document D6 describes compounds with alpha2-adrenoceptor antagonistic and serotonin reuptake inhibitory activity of a closely related structure; the specific groups for Het as presently defined are however not mentioned in D6

Novelty may therefore be acknowledged.

4) Inventive step

The application defines a solution to the problem of providing further agents with alpha2-adrenoceptor antagonistic and serotonin reuptake inhibitory activity. Considering the relevant activity, document D1 may be considered as closest prior art. The compounds of the present application show such major structural difference with the compounds of D1, that the person skilled in the art could not have expected the activity of the present compounds as a matter of obviousness.

5) Further observations

It is noted that the present claim 1 refers to optional substitutions for Het and R3. It is not evident what substitutions are intended. It is further noted that in as far as any (optional) substitution is intended, the claims are likely to cover compounds which will not exhibit the relevant activity and will thus not present a solution to the relevant problem.

It is not evident what additional compounds will be covered by the definition of claim 5 which are not already covered by the broadly formulated claim 1.